SEQUENCE LISTING

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RUSHMERE, NEIL K.
HINCHLIFFE, STEWART J.
VAN DEN BERG, CARMEN W.

<120> MODIFIED BIOLOGICAL MATERIAL

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<140> 09/673,032
<141> 2000-12-06

<150> PCT/GB99/01085
<151> 1999-04-08

<150> GB 9807520.3
<151> 1998-04-09

<160> 24

<170> PatentIn Ver. 2.1

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             20                  25                  30

Asn Pro Ala Gly Ser Cys Thr Thr Ala Met Asn Cys Ser His Asn Gln
         35                  40                  45

Asp Ala Cys Ile Phe Val Glu Ala Val Pro Pro Lys Thr Tyr Tyr Gln
     50                  55                  60

Cys Trp Arg Phe Asp Glu Cys Asn Phe Asp Phe Ile Ser Arg Asn Leu
 65                  70                  75                  80

Ala Glu Lys Lys Leu Lys Tyr Asn Cys Cys Arg Lys Asp Leu Cys Asn
                 85                  90                  95

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Met Gly Ser Lys Gly Gly Phe Ile
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ttg ctc tgg ctc ctg tcc atc ctg gct gtt ctc tgc cac tta ggt cac 161
Leu Leu Trp Leu Leu Ser Ile Leu Ala Val Leu Cys His Leu Gly His
10 15 20

agc ctg cag tgc tat aac tgt atc aac cca gct ggt agc tgc act acg 209
Ser Leu Gln Cys Tyr Asn Cys Ile Asn Pro Ala Gly Ser Cys Thr Thr
25 30 35 40

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45 50 55

gtg cca ccc aaa act tac tac cag tgt tgg agg ttc gat gaa tgc aat 305
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60 65 70

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Phe Asp Phe Ile Ser Arg Asn Leu Ala Glu Lys Lys Leu Lys Tyr Asn
75 80 85

tgc tgc cgg aag gac ctg tgt aac aag agt gat gcc acg att tca tca 401
Cys Cys Arg Lys Asp Leu Cys Asn Lys Ser Asp Ala Thr Ile Ser Ser
90 95 100

ggg aaa acc gct ctg ctg gtg atc ctg ctg ctg gta gca acc tgg cac 449
Gly Lys Thr Ala Leu Leu Val Ile Leu Leu Leu Val Ala Thr Trp His
105 110 115 120

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Phe Cys Leu

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gactttgaag accaggcctg ttggcagaga agacctgtca gaggggaaac gttttaagag 678

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<213> Porcus sp.

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<211> 327
<212> PRT
<213> Porcus sp.

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Asn Ala Gln Pro Asp Leu Arg Gly Leu Ala Ser Phe Pro Glu Gln Thr
35 40 45

Thr Ile Thr Tyr Lys Cys Asn Lys Gly Phe Val Lys Val Pro Gly Met
50 55 60

Ala Asp Ser Val Leu Cys Leu Asn Asp Lys Trp Ser Glu Val Ala Glu
65 70 75 80

Phe Cys Asn Arg Ser Cys Asp Val Pro Thr Arg Leu His Phe Ala Ser
85 90 95

Leu Lys Lys Ser Tyr Ser Lys Gln Asn Tyr Phe Pro Glu Gly Phe Thr
100 105 110

Val Glu Tyr Glu Cys Arg Lys Gly Tyr Lys Arg Asp Leu Thr Leu Ser
115 120 125

Glu Lys Leu Thr Cys Leu Gln Asn Phe Thr Trp Ser Lys Pro Asp Glu
130 135 140

Phe Cys Lys Lys Lys Gln Cys Pro Thr Pro Gly Glu Leu Lys Asn Gly
145 150 155 160

His Val Asn Ile Thr Thr Asp Leu Leu Phe Gly Ala Ser Ile Phe Phe
165 170 175

Ser Cys Asn Ala Gly Tyr Arg Leu Val Gly Ala Thr Ser Ser Tyr Cys
180 185 190

Phe Ala Ile Ala Asn Asp Val Glu Trp Ser Asp Pro Leu Pro Asp Cys
195 200 205

Gln Glu Ile Ser Pro Thr Val Lys Ala Ile Pro Ala Val Glu Lys Pro
210 215 220

Ile Thr Val Asn Phe Pro Ala Thr Lys Tyr Pro Ala Ile Pro Arg Ala
225 230 235 240

Thr Thr Ser Phe His Ser Ser Thr Ser Lys Asn Arg Gly Asn Pro Ser
245 250 255

Ser Gly Met Arg Ile Met Ser Ser Gly Thr Met Leu Leu Ile Ala Gly
260 265 270

Gly Val Ala Val Ile Ile Ile Ile Val Ala Leu Ile Leu Ala Lys Gly
275 280 285

Phe Trp His Tyr Gly Lys Ser Gly Ser Tyr His Thr His Glu Asn Asn
290 295 300

Lys Ala Val Asn Val Ala Phe Tyr Asn Leu Pro Ala Thr Gly Asp Ala
305 310 315 320

Ala Asp Val Arg Pro Gly Asn
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<210> 18
<211> 325
<212> PRT
<213> Porcus sp.

<400> 18
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Ala Ala Gln Gly Asp Cys Ser Leu Pro Pro Asp Val Pro Asn Ala Gln
20 25 30

Pro Asp Leu Arg Gly Leu Ala Ser Phe Pro Glu Gln Thr Thr Ile Thr
35 40 45

Tyr Lys Cys Asn Lys Gly Phe Val Lys Val Pro Gly Met Ala Asp Ser
50 55 60

Val Leu Cys Leu Asn Asp Lys Trp Ser Glu Val Ala Glu Phe Cys Asn
65 70 75 80

Arg Ser Cys Asp Val Pro Thr Arg Leu His Phe Ala Ser Leu Lys Lys
85 90 95

Ser Tyr Ser Lys Gln Asn Tyr Phe Pro Glu Gly Phe Thr Val Glu Tyr
100 105 110

Glu Cys Arg Lys Gly Tyr Lys Arg Asp Leu Thr Leu Ser Glu Lys Leu
115 120 125

Thr Cys Leu Gln Asn Phe Thr Trp Ser Lys Pro Asp Glu Phe Cys Lys
130 135 140

Lys Lys Gln Cys Pro Thr Pro Gly Glu Leu Lys Asn Gly His Val Asn
145 150 155 160

Ile Thr Thr Asp Leu Leu Phe Gly Ala Ser Ile Phe Phe Ser Cys Asn
165 170 175

Ala Gly Tyr Arg Leu Val Gly Ala Thr Ser Ser Tyr Cys Phe Ala Ile
180 185 190

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Ala Asn Asp Val Glu Trp Ser Asp Pro Leu Pro Glu Cys Gln Glu Ile
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Ser Pro Thr Val Lys Ala Ile Pro Ala Val Glu Lys Pro Ile Thr Val
    210                 215                 220

Asn Phe Pro Gly Thr Lys Ala Leu Ser Ser Pro Gln Lys Pro Ser Thr
225                 230                 235                 240

Ala Asn Thr Leu Ala Thr Glu Leu Leu Pro Thr Pro Gln Glu Pro Thr
                245                 250                 255

Thr Val Asn Val Pro Asp Ser Lys Ala Ile Ser Ser Pro Gln Lys Pro
            260                 265                 270

Ser Thr Val Asn Thr Pro Ala Thr Asp Leu Leu Pro Thr Pro Gln Glu
        275                 280                 285

Pro Thr Thr Val Asn Val Pro Asp Ser Lys Ala Ile Ser Ser Ser Gln
    290                 295                 300

Lys Pro Ser Thr Val Asn Thr Pro Ala Gln Thr Tyr Tyr Gln Leu Leu
305                 310                 315                 320

Arg Asn Pro Pro Gln
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<212> PRT
<213> Homo sapiens

C2 Cont

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            20                  25                  30

Leu Pro Pro Asp Val Pro Asn Ala Gln Pro Ala Leu Glu Gly Arg Thr
        35                  40                  45

Ser Phe Pro Glu Asp Thr Val Ile Thr Tyr Lys Cys Glu Glu Ser Phe
    50                  55                  60

Val Lys Ile Pro Gly Glu Lys Asp Ser Val Thr Cys Leu Lys Gly Met
65                  70                  75                  80

Gln Trp Ser Asp Ile Glu Glu Phe Cys Asn Arg Ser Cys Glu Val Pro
                85                  90                  95

Thr Arg Leu Asn Ser Ala Ser Leu Lys Gln Pro Tyr Ile Thr Gln Asn
            100                 105                 110

Tyr Phe Pro Val Gly Thr Val Val Glu Tyr Glu Cys Arg Pro Gly Tyr
        115                 120                 125
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Arg Arg Glu Pro Ser Leu Ser Pro Lys Leu Thr Cys Leu Gln Asn Leu
    130                 135                 140

Lys Trp Ser Thr Ala Val Glu Phe Cys Lys Lys Lys Ser Cys Pro Asn
145                 150                 155                 160

Pro Gly Glu Ile Arg Asn Gly Gln Ile Asp Val Pro Gly Gly Ile Leu
                165                 170                 175

Phe Gly Ala Thr Ile Ser Phe Ser Cys Asn Thr Gly Tyr Lys Leu Phe
            180                 185                 190

Gly Ser Thr Ser Ser Phe Cys Leu Ile Ser Gly Ser Ser Val Gln Trp
        195                 200                 205

Ser Asp Pro Leu Pro Glu Cys Arg Glu Ile Tyr Cys Pro Ala Pro Pro
    210                 215                 220

Gln Ile Asp Asn Gly Ile Ile Gln Gly Glu Arg Asp His Tyr Gly Tyr
225                 230                 235                 240

Arg Gln Ser Val Thr Tyr Ala Cys Asn Lys Gly Phe Thr Met Ile Gly
                245                 250                 255

Glu His Ser Ile Tyr Cys Thr Val Asn Asn Asp Glu Gly Glu Trp Ser
            260                 265                 270

Gly Pro Pro Pro Glu Cys Arg Gly Lys Ser Leu Thr Ser Lys Val Pro
        275                 280                 285

Pro Thr Val Gln Lys Pro Thr Thr Val Asn Val Pro Thr Thr Glu Val
    290                 295                 300

Ser Pro Thr Ser Gln Lys Thr Thr Thr Lys Thr Thr Thr Pro Asn Ala
305                 310                 315                 320

Gln Ala Thr Arg Ser Thr Pro Val Ser Arg Thr Thr Lys His Phe His
                325                 330                 335

Glu Thr Thr Pro Asn Lys Gly Ser Gly Thr Thr Ser Gly Thr Thr Arg
            340                 345                 350

Leu Leu Ser Gly His Thr Cys Phe Thr Leu Thr Gly Leu Leu Gly Thr
        355                 360                 365

Leu Val Thr Met Gly Leu Leu Thr
    370                 375


<210> 20
<211> 128
<212> PRT
<213> Homo sapiens

<400> 20
Met Gly Ile Gln Gly Gly Ser Val Leu Phe Gly Leu Leu Leu Val Leu
  1               5                  10                  15
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            20                  25                  30

Asn Pro Thr Ala Asp Cys Lys Thr Ala Val Asn Cys Ser Ser Asp Phe
        35                  40                  45

Asp Ala Cys Leu Ile Thr Lys Ala Gly Leu Gln Val Tyr Asn Lys Cys
    50                  55                  60

Trp Lys Phe Glu His Cys Asn Phe Asn Asp Val Thr Thr Arg Leu Arg
65                  70                  75                  80

Glu Asn Glu Leu Thr Tyr Tyr Cys Cys Lys Lys Asp Leu Cys Asn Phe
                85                  90                  95

Asn Glu Gln Leu Glu Asn Gly Gly Thr Ser Leu Ser Glu Lys Thr Val
            100                 105                 110

Leu Leu Leu Val Thr Pro Phe Leu Ala Ala Ala Trp Ser Leu His Pro
        115                 120                 125
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<212> PRT
<213> Rattus sp.

<400> 21

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            20                  25                  30

Ser Ser Cys Lys Thr Asn Ser Thr Cys Ser Pro Asn Leu Asp Ala Cys
        35                  40                  45

Leu Val Ala Val Ser Gly Lys Gln Val Tyr Gln Gln Cys Trp Arg Phe
    50                  55                  60

Ser Asp Cys Asn Ala Lys Phe Ile Leu Ser Arg Leu Glu Ile Ala Asn
65                  70                  75                  80

Val Gln Tyr Arg Cys Cys Gln Ala Asp Leu Cys Asn Lys Ser Phe Glu
                85                  90                  95

Asp Lys Pro Asn Asn Gly Ala Ile Ser Leu Leu Gly Lys Thr Ala Leu
            100                 105                 110

Leu Val Thr Ser Val Leu Ala Ala Ile Leu Lys Pro Cys Phe
        115                 120                 125
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<212> PRT
<213> Murine sp.

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Met Arg Ala Gln Arg Gly Leu Ile Leu Leu Leu Leu Leu Ala Val
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Phe Cys Ser Thr Ala Val Ser Leu Thr Cys Tyr His Cys Phe Gln Pro
20 25 30

Val Val Ser Ser Cys Asn Met Asn Ser Thr Cys Ser Pro Asp Gln Asp
35 40 45

Ser Cys Leu Tyr Ala Val Ala Gly Met Gln Val Tyr Gln Arg Cys Trp
50 55 60

Lys Gln Ser Asp Cys His Gly Glu Ile Ile Met Asp Gln Leu Glu Glu
65 70 75 80

Thr Lys Leu Lys Phe Arg Cys Cys Gln Phe Asn Leu Cys Asn Lys Ser
85 90 95

Asp Gly Ser Leu Gly Lys Thr Pro Leu Leu Gly Thr Ser Val Leu Val
100 105 110

Ala Ile Leu Asn Leu Cys Phe Leu Ser His Leu
115 120

<210> 23
<211> 6
<212> PRT
<213> Homo sapiens

C2 Cancel

<400> 23
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<210> 24
<211> 14
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<213> Artificial Sequence

<220>
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<222> (7)
<223> Any amino acid

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<222> (10)
<223> Any amino acid

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